

AVON, OH 44011  
TELEPHONE: (440) 937-7000

## MATERIAL SAFETY DATA SHEET

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1.5 OZ LIQUID SOLDER TUBE  
01-80239

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1.5 OZ LIQUID SOLDER TUBE  
Item No.: 01-80239  
Part No.: SO-9  
Product Type: Adhesive

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ACETONE	67-64-1	40-45
Vinyl terpolymer	9005-09-8	25-30
ISOBUTYL ACETATE	110-19-0	20-25
Alkylphenol	Proprietary	1-3
BIS (2-ETHYLHEXYL) PHTHALATE*	117-81-7	1-3
PROPYLENE OXIDE*	75-56-9	1-3
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-3
ALUMINUM	7429-90-5	0.1-1

\* This component is listed as a SARA Section 313 Toxic Chemical.

## Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ACETONE	500 ppm TWA 1188 mg/m3	750 ppm TWA 1800 mg/m3	None
ISOBUTYL ACETATE	150 ppm TWA 713mg/M3	150 ppm TWA 700mg/M3	None
BIS (2-ETHYLHEXYL) PHTHALATE	5 mg/m3 TWA	5 mg/m3 TWA	None
PROPYLENE OXIDE	20 ppm TWA 48 mg/m3	20 ppm TWA 50 mg/m3	5 ppm 6 ppm STEL
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
ALUMINUM	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 respir.	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ACETONE	750 ppm 1782 mg/m3	1000 ppm 2400 mg/m3	
BIS (2-ETHYLHEXYL) PHTHALATE	10 mg/m3	10 mg/m3	

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## 3. HAZARDS IDENTIFICATION

**Toxicity:**  
 Eyes: Exposure to liquid or vapor causes eye irritation.  
 Skin: Exposure may cause mild skin irritation.  
 Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

**Primary Routes of Entry:** Inhalation, skin absorption, skin contact, eye contact.

**Signs and Symptoms of Exposure:**  
 Skin: Redness, burning, drying and cracking, burns.  
 Inhalation: irritation (nose, throat, respiratory tract)  
 Ingestion: Mouth and Throat irritation, gastro-intestinal irritation (nausea, vomiting, diarrhea) central nervous system depression (Dizziness, weakness, fatigue, nausea, headache, unconsciousness) high blood sugar, coma.  
 Eyes: Excess redness, swelling of conjunctiva, stinging, discomfort, pain.

**Existing Conditions Aggravated by Exposure:** Skin conditions, testis damage.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ACETONE	BLO CNS IRR	NO	NO	NO
Vinyl terpolymer	No Data	NO	NO	NO
ISOBUTYL ACETATE	CNS IRR	NO	NO	NO
Alkylphenol	No Data	NO	NO	NO
BIS (2-ETHYLHEXYL) PHTHALATE	AC3 CNS DEV KID LIV REP SOM	YES	N/A	NO
PROPYLENE OXIDE	AC3 COR IRR MUT NER SOM	YES	2A	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
ALUMINUM	CNS IRR LUN	NO	NO	NO

## Abbreviations

N/A Not Applicable	2A Probably carcinogenic to humans
AC3 ACGIH animal carcinogen.	BLO Blood
CNS Central nervous system	COR Corrosive
DEV Developmental	IRR Irritant
KID Kidney	LIV Liver
LUN Lung	MUT Mutagen
NER Nervous System	NUI Nuisance dust
REP Reproductive	SOM Evidence of some carcinogenicity

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## 4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm.  
Obtain medical attention.  
Inhalation: Remove to fresh air. If symptoms persist, obtain  
medical attention.  
Skin Contact: Wash with soap and water.  
Eye Contact: Flush at least 15 minutes with water. Obtain  
medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: 0øF Method: Tag Closed Cup  
Recommended  
Extinguishing Agents: Waterfog, carbon dioxide, foam, dry chemical  
Special Firefighting  
Procedures: Not available  
Hazardous Products formed  
by Fire or Thermal Decomp Oxides of carbon, hydrogen chloride, aluminum  
oxide  
Unusual Fire or  
Explosion Hazards: Never use welding or cutting torch on or near drum  
(even empty) because product (even just residue)  
can ignite explosively.  
Explosive Limits:  
(% by volume in air) Lower Acetone: 2.6%  
Bis (2-ethylhexyl) phthalate: 0.3%  
Isobutyl acetate: 2.2  
(% by volume in air) Upper Acetone: 12.8%

## 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak: Maintain adequate ventilation.  
Remove sources of ignition. Scrape up with absorb-  
ent material and place in closed container. Dried  
material is harmless.

## 7. HANDLING AND STORAGE

Safe Storage: Keep away from fire, heat, sparks.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Keep away from eyes. Avoid prolonged breathing of  
vapor and contact with skin. Close container after  
use. Do not use near sources of ignition.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Sufficient to maintain vapor concentration below TLV.  
Respiratory: NIOSH/MSHA approved respirator if ventilation is inadequate.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aluminum liquid  
Odor: Penetrating  
Boiling Point: Not available  
pH: Does not apply  
Solubility in Water: Not available  
Specific Gravity: 0.93  
Volatile Organic Compound  
(EPA Method 24) Not available  
Vapor Pressure: Not available  
Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available

## 10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Oxidizing agents, strong alkalies, strong mineral acids, strong alkalies  
Conditions to Avoid: Not available  
Hazardous Decomposition  
Products (non-thermal): Phosphorous acid, phenol

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.  
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

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## 14. TRANSPORTATION INFORMATION

## DOT (49 CFR 172)

## Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter);  
Adhesives (More than one liter)  
Hazard Class or  
Division: ORM-D (Not more than one liter);  
Class 3, Packing Group II (More than one liter)  
Identification Number: None (Not more than one liter);  
UN 1133 (More than one liter)  
Marine Pollutant: None

## IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml);  
Adhesives (More than 500 ml)  
Class or Division: Class 9 (Not more than 500 ml)  
Class 3, Packing Group II (More than 500 ml)  
UN or ID Number: ID 8000 (Not more than 500 ml);1  
UN 1133 (More than 500 ml)

## 15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains a chemical known to  
the State of California to cause cancer.  
Bis(2-ethylhexyl)Phthalate (DEHP)  
Propylene oxide

## 16. OTHER INFORMATION

## Estimated NFPA(R) Code:

Health Hazard: 1  
Fire Hazard: 3  
Reactivity Hazard: 0  
Specific Hazard: Does not apply

## Estimated HMIS(R) Code:

Health Hazard: 1\*  
Flammability Hazard: 3  
Reactivity Hazards: 0  
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

## Prepared by:

Company: Safety, Health and Regulatory Affairs - North America,  
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100